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# (12) United States Patent

# Letchworth

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#### (54) INBRED CORN LINE 7SSDE1042

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## Related U.S. Application Data

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- (52) U.S. Cl.

(58) Field of Classification Search

None

See application file for complete search history.

#### (56) References Cited

#### U.S. PATENT DOCUMENTS

7,635,808 B1\* 12/2009 Maves ...... A01H 5/10 435/412

#### OTHER PUBLICATIONS

Allard, In Principles of Plant Breeding, John Wiley & Sons, Inc. pp. 155-156.

Phillips, et al., In Corn and Corn Improvement , ASA Monograph No. 18,  $3^{rd}$  edition, p. 358.

Eshed, et al., Genetics (1996), vol. 143, pp. 1807-1817.

Kraft, et al., Theoretical Applied Genetics (2000), vol. 101, pp. 323-326.

Murray, et al., Proceedings of the 43<sup>rd</sup> Annual Corn and Sorghum Industry Research Conference, vol. 43, p. 72-87, 1988.

\* cited by examiner

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## (57) ABSTRACT

An inbred corn line, designated 7SSDE1042, the plants and seeds of the inbred corn line 7SSDE1042, methods for producing a corn plant, either inbred or hybrid, produced by crossing the inbred corn line 7SSDE1042 with itself or with another corn plant, and hybrid corn seeds and plants produced by crossing the inbred line 7SSDE1042 with another corn line or plant and to methods for producing a corn plant containing in its genetic material one or more transgenes and to the transgenic corn plants produced by that method. This invention also relates to inbred corn lines derived from inbred corn line 7SSDE1042, to methods for producing other inbred corn lines derived from inbred corn lines derived by the use of those methods.

# 20 Claims, No Drawings